

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT - REVISED

PERMITTEE

G & W Electric Company
Attn: Ken Hallberg
3500 West 127th Street
Blue Island, Illinois 60406

<u>Application No.:</u> 73010222	<u>I.D. No.:</u> 031024ABC
<u>Applicant's Designation:</u> TORIT	<u>Date Received:</u> November 8, 2000
<u>Subject:</u> Metal Fabrication	
<u>Date Issued:</u> February 2, 2001	<u>Expiration Date:</u> October 16, 2003
<u>Location:</u> 3500 West 127th Street, Blue Island	

This permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of:

Four Natural-Gas-Fired Boilers
Welding Operations
Three Paint Booths and One Paint Line
Brazing Stations
Solder Pots
Oaklite Cleaning System
One Torit Down Flo II Cartridge Collector
Three Asphalt Compounding Blending Tanks (Each 500 Gallon) and One Vinsol Resin Tank
Sand Mold Process, with Two Dust Collectors (Torit 4-32 and Torit EFT 4-15)
Bushing Mold Operations (Twelve Electrically Heated Curing Ovens, Indoor Product Line, Outdoor Product Line, Electrodag Coating Booth, High Voltage Test Solution Tank, and Paint Transfer)
Tin Spray Prep with Curing Oven
Tin Spray Operation
Acid Tank
Aluminum/Copper Melting Operations (2 Resistance Furnaces and 3 Induction Furnaces)

pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emission of air pollutants from the source to less than major source thresholds (i.e., 25 tons/year for VOM, 10 tons/year of a single HAP and 25 tons/year for totaled HAP). As a result, the source is excluded from requirements to obtain a Clean Air Act Program permit. The maximum emissions of this source, as limited by the conditions of this permit are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permit(s) for this location.

- 2. This permit contains the federally enforceable conditions from construction permit(s) 00060024. These conditions effectively limit the potential emissions of air pollutants from the source to less than major source thresholds (i.e., volatile organic material to less than 25 tons per year, etc.). As a result, the source is excluded from the requirements to obtain a Clean Air Act Permit Program (CAAPP) permit.
- 3a. The Permittee shall comply with the coating requirements of 35 Ill. Adm. Code 218.204.
- 4a. Operation (including VOM emissions associated with clean-up operations) of the facility shall not exceed the following limits:

Coating Usage (Including Thinner)		VOM Content (Lb/Gal)	VOM Emissions	
(Gal/Mo)	(Gal/Yr)		(Lb/Mo)	(Ton/Yr)
350	4,200	3.50	1,225	7.35

These limits are based on maximum coating materials, thinner and solvent usage and emissions are determined by materials balance. Compliance with annual limits shall be determined from a running total of 12 months of data.

- 5a. Operation and emissions of boilers shall not exceed the following limits:

Gas Consumption		VOM Emissions	
(scf/Mo)	(scf/Yr)	(Lb/Mo)	(Ton/Yr)
17 x 10 ⁶	200 x 10 ⁶	64	0.38

These limits defines the potential fuel combustion (natural gas) emissions from the three boilers and is based on maximum firing rate, maximum hours of operation and the emissions were determined by standard emission factors.

- b. Natural gas shall be the only fuel fired in boilers.
- c. Compliance with annual limits shall be determined from a running total of 12 months of data.
- 6a. Emissions and operation of asphalt compounding process shall not exceed the following limits:

Throughput		VOM Emissions	
(Ton/Mo)	(Ton/Yr)	(Lb/Mo)	(Ton/Yr)
8.20	97.5	74	0.44

These limits are based on maximum throughput of asphalt compounding process and emissions were determined based on the assumption that all the raw materials used in asphalt compounding process has a vapor pressure of # 1.7 mm of Hg at 250°F.

- b. Compliance with annual limits shall be determined from a running total of 12 months of data.
- 7. Emissions and operation of equipment shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Operating Hours (Hour/Year)</u>	<u>E M I S S I O N S</u>			
		<u>VOM</u>		<u>PM</u>	
		<u>(Lb/Mo)</u>	<u>(Ton/Yr)</u>	<u>(Lb/Mo)</u>	<u>(Ton/Yr)</u>
Tin Spray Operation	400	150	0.90	74	0.44
Sand Mold Process	2,880	1,250	7.50	200	1.2

These limits are based on material balance and maximum throughputs. Compliance with annual limits shall be determined from a running total of 12 months of data.

- 8. Emissions and operation of all bushing molding operations (new and existing) shall not exceed the following limits:

<u>VOM Solvent Usage</u>		<u>Volatile Organic Material Emissions</u>	
<u>(Lb/Month)</u>	<u>(Ton/Year)</u>	<u>(Lb/Month)</u>	<u>(Ton/Year)</u>
1,167	7.00	1,167	7.00

These limits are based on a material balance with all solvents used being emitted. Compliance with annual limits shall be determined from a running total of 12 months of data.

- 9. This permit is issued based on negligible emissions of volatile organic material (VOM) and particulate matter from welding operations, brazing stations and solder pots. For this purpose emissions of each pollutant from each type of emission source shall not exceed nominal emissions rate of 0.1 lb/hr and 0.44 ton/year.
- 10. As a consequence of the requirements of this permit the emissions of hazardous air pollutants (HAP) as listed in Section 112(b) of the Clean Air Act from this source will be less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs, so that HAP emissions do not trigger the requirements to obtain a Clean Air Act Permit Program permit from the Illinois EPA.
- 11. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic maintenance on the pollution control equipment covered under this permit such that the pollution control equipment be kept in proper working condition and not cause a violation of the Environmental Protection Act or regulations promulgated therein.
- 12a. In accordance with 35 Ill. Adm. Code Section 218.211(c), the Permittee shall collect and record the following information each day for each

coating line and maintain the information at the source for a period of three years:

- i. The name and identification number of each coating as applied on each coating line.
 - ii. The weight of the VOM per volume of each coating (minus water and exempt compounds) as applied each day on each coating line.
- b. The Permittee shall maintain records of the following items:
- i. Usage of each coating and VOM containing material (i.e., thinner) including solvent on a monthly basis and 12 months rolling total basis.
 - ii. Emissions of VOM on a monthly basis and 12 months rolling total basis.
 - iii. Throughput of asphalt compounding process (ton/month and ton/year).
 - iv. Natural Gas Usage (ft³/month and ft³/year).
 - v. Vapor pressure at 250EF of all VOM containing raw material used in asphalt compounding process.
 - vi. Emissions of hazardous air pollutants (each individual HAP and the combined HAPs) on a monthly and 12 month rolling total basis.
 - vii. Records of periodic maintenance of control equipment.
- c. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA and USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source Office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.
13. Reporting: If there is an exceedance of the requirements of this permit as determined by the record required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Unit in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, a description of the exceedance or violation, and the efforts to reduce emissions and future occurrences. This report should be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

- 14a. Emissions and operation of metal melting operation, including the aluminum and copper melting process, shall not exceed the following limits:

<u>Process Weight Rate</u>		<u>PM Emissions</u>	
<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
250	3000	0.26	3.15

These limits are based on maximum process weight rate and emissions are the allowable emissions as per 35 IAC 212.321.

- b. Compliance with annual limits shall be determined from a running total of 12 months of data.
15. No person shall cause or allow any visible emissions of fugitive particulate matter from any process, including any material handling or storage activity beyond the property line of the emission source, pursuant to 35 Ill. Adm. Code 212.301.
- 16a. The Permittee shall keep the following records:
- i. Process weight rate (ton/mo and ton/yr).
 - ii. PM emissions (lbs/mo and ton/yr).
- b. These records shall be retained for three years and shall be available for inspection and copying by the Illinois EPA.
17. This permit is issued based on negligible emissions of particulate matter from tin spray operation, wood saws, and acid tanks. For this purpose emissions of particulate matter from each emission source shall not exceed a nominal emission rate of 0.1 lb/hr and 0.44 ton/yr.
18. All reports (notification, tests, reports, etc.) shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and

Illinois Environmental Protection Agency
Division of Air Pollution Control - Regional Office
9511 West Harrison
Des Plaines, Illinois 60016

19. This permit is issued based on negligible emissions of particulate matter from grinding operation, shotblasting operation and two crucible furnaces. For this purpose emissions from each emission source shall not exceed the nominal emission rates of 0.1 lb/hr and 0.44 ton/yr.

20. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year. If there have been no exceedances during the prior calendar year, the Annual Emission Report shall include a statement to that effect.
- a. Name and identification number, density, weight of VOM content per volume of each coating material (minus water and any compounds which are specifically exempted from the definition of VOM) and VOM containing material (i.e., thinner) used including solvent.
 - b. Usage of each coating and VOM containing material (i.e., thinner) including solvent on a monthly basis and 12 months rolling total basis.
 - c. Natural Gas Usage (ft³/month and ft³/year).
 - d. Emissions of VOM on a monthly and 12 months rolling total basis.
21. This permit is issued based on negligible emissions of sulfur dioxide and particulate matter from three boilers. For this purpose emissions of each pollutant from each emission source shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.

It should be noted that this permit has been revised to allow coating with a VOM content up to 3.5 lb/gallon, as limited in Condition 4a.

Also note that the grinding, shotblasting, and wood saws are exempt from state permit requirements pursuant to 35 Ill. Adm. Code 201.146(aa).

If you have any questions on this permit, please call John Blazis at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:JPB:jar

cc: IEPA, FOS Region 1
IEPA, Compliance Section
USEPA
PCF #5

Attachment A - Emissions Summary

This attachment provides a summary of the maximum emissions from the electrical component manufacturing plant operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are well below the levels, e.g., 25 ton/yr of VOM at which this source would be considered a major source for purposes of the Clean Air Act Permit Program.

1. Emissions of VOM from coating operation:

Coating Usage (Including Thinner)		VOM Content (Lb/Gal)	VOM Emissions	
(Gal/Mo)	(Gal/Yr)		(Lb/Mo)	(Ton/Yr)
350	4,200	3.50	1,225	7.35

This table defines the potential emissions from the coating and cleanup operations. The limits are based on maximum coating material and solvent usage and determined by materials balance.

2.

Item of Equipment	E M I S S I O N S VOM		E M I S S I O N S PM	
	(Lb/Mo)	(Ton/Yr)	(Lb/Mo)	(Ton/Yr)
Asphalt Compounding Process	74	0.44	--	--
Welding Operations	74	0.44	74	0.44
3-Brazing Stations	74	0.44	74	0.44
3-Solder Pots	74	0.44	74	0.44
2-Crucible Furnaces (Each)	--	--	74	0.44
Acid Tank	--	--	74	0.44
Metal Melting Operation including Aluminum & Copper Melting Operation	--	--	525	3.15
Totals	296	1.76	1,117	6.67

3. Fuel combustion emissions:

Gas Consumption		E M I S S I O N S NO _x		E M I S S I O N S CO		E M I S S I O N S VOM	
(scf/Mo)	(scf/Yr)	(Lb/Mo)	(T/Yr)	(Lb/Mo)	(T/Yr)	(Lb/Mo)	(T/Yr)
17 x 10 ⁶	200 x 10 ⁶	1667	10	350	2.1	64	0.38

4. Emissions and operation of equipment shall not exceed the following limits:

Item of Equipment	Operating Hours (Hour/Year)	E M I S S I O N S VOM		E M I S S I O N S PM	
		(Lb/Mo)	(Ton/Yr)	(Lb/Mo)	(Ton/Yr)
Tin Spray Operation	400	150	0.90	74	0.44

Sand Mold Process 2,880 1,250 7.50 200 1.2
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These limits are based on material balance and maximum throughputs. Compliance with annual limits shall be determined from a running total of 12 months of data.

5. Emissions and operation of all bushing molding operations (new and existing) shall not exceed the following limits:

<u>VOM Solvent Usage</u>		<u>Volatile Organic Material Emissions</u>	
<u>(Lb/Month)</u>	<u>(Ton/Year)</u>	<u>(Lb/Month)</u>	<u>(Ton/Year)</u>
1,167	7.00	1,167	7.00

These limits are based on a material balance with all solvents used being emitted. Compliance with annual limits shall be determined from a running total of 12 months of data.

6. As a consequence of the requirements of this permit, the emissions of hazardous air pollutants (HAP) as listed in Section 112(b) of the Clean Air Act from this source will be less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs so that HAP emissions do not trigger the requirements to obtain a Clean Air Act Permit Program permit from the Illinois EPA.

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